

AMENDMENTS TO THE CLAIMS

The listing of the claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

We claim:

1. (currently amended): A device for transmitting a movement, comprising:

(a) ~~at least one~~ a moveable member which is coupled to at least one parallel kinematics transmission structure, each of the at least one parallel kinematics transmission structures comprising a control arm pivotable over a rotation axis at one end and a linking bar hingedly mounted on one end to the other end of the control arm and on the other end to the at least one moveable member and having at least two rotational degrees of freedom at both ends, thereby providing each parallel kinematics transmission structure with ~~providing~~ three translational degrees of freedom;

(b) ~~at least one~~ a rotative actuator ~~which is coupled to~~ each of the at least one parallel kinematics transmission structure ~~over a~~ over the control arm such that translational movement of the moveable member is converted into rotational movement of a portion of the rotative actuator, or vice versa; and

(c) wherein the rotative actuator is arranged such that its axis is substantially perpendicular ~~to a~~ to the rotation axis of the control arm.

2. (original): A device according to claim 1, wherein the moveable member is coupled to three parallel kinematics transmission structures in a delta type arrangement, wherein each parallel kinematics transmission structure is coupled to a respective rotative actuator, wherein the rotative actuators are arranged such the their axis are substantially parallel to each other.

3. (currently amended): A device according to claim 2, wherein the rotative actuators are arranged on a common base member of the device ~~in a close relationship to each other~~.

4. (original): A device according to claim 1, further comprising a cable member to transmit movements between the rotative actuator and the control arm.

5. (original): A device according to claim 4, wherein the cable member is coupled to a shaft of the rotative actuator at one end and to the respective control arm at the other.

6. (currently amended): A device according to claim 1, wherein the ends of the control arm and the linking bar of each parallel kinematics transmission structure comprise articulations and

where at least one some of the articulations of the parallel kinematics transmission structure are comprises a flexible hinge articulation articulations.

7. (currently amended): A device according to claim 6, wherein at least two of the ~~base member,~~ control arm, linking bar and flexible hinge articulation articulations are made from one piece.

8. (original): A device according to claim 1, wherein the control arm is provided with a restoring element such as to provide a restoring force against the force exerted by the rotative actuator.

9. (original): A device according to claim 4, wherein the shaft of the rotative actuator is adapted to enable secure coiling and uncoiling of the cable member.

10. (original): A device according to claim 4, wherein the cable member is coupled at a fixation point of the control arm such as to allow the end of the cable to rotate with respect to the control arm.

11. (original): A device according to claim 1, further comprising at least one redirection member for each control arm, wherein each redirection member is fixedly mounted on a base member of the device and located between the control arm and the shaft of the respective rotative actuator.

12. (original): A device according to claim 11, wherein the redirection member is located a distance from the shaft of the respective rotative actuator such as to allow an appropriate incidence of the cable member on the shaft of the actuator.

13. (currently amended): A device according to claim 4 ~~8~~, further comprising a torsional spring arranged to bias the shaft of the rotative actuator.

14. (original): A device according to claim 13, wherein the torsional force of the spring is such that the pre-stressing action of the restoring element is at least partly compensated.

15. (original): A haptic device for providing a user with force feedback information, comprising a device for transmitting a movement according to claim 1.

16. (canceled)

17. (original): A haptic device according to claim 15, further comprising a wrist module arranged in series with the parallel transmission structure and adapted to provide at least one rotational degrees of freedom.

18. (original): A haptic device according to claim 17, wherein the wrist module is adapted to provide a tactile feedback.

19. (original): A haptic device according to claim 15, further comprising control keys, control wheels, force grippers or other elements used for a human computer interface.
20. (currently amended): A haptic device according to claim ~~15~~ 17, further comprising a force sensor located underneath the wrist module.
21. (original): A manipulator for providing movements of at least three translational degrees of freedom to a manipulation member, comprising a device for transmitting a movement according to claim 1.
22. (original): A measuring system for providing at least three translational degrees of freedom to a sensor element, comprising a device for transmitting a movement according to claim 1.